PATENT TH1647 05 (US) JYK:EM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the accompanying application of

CHARLES L. EDWARDS, KIRK H. RANEY,
and PAUL G. SHPAKOFF

This is a division of Serial No. 10/025,080

BRANCHED PRIMARY ALCOHOL COMPOSITIONS AND DERIVATIVES

filed December 19, 2001

THEREOF

October 3, 2003

COMMISSIONER FOR PATENTS P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97

It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. A full text copy of the newly cited reference (in bold print on the PTO-1449 form) is enclosed. Copies of the other referenced documents are not provided since they were previously submitted to the Office in the parent application, Serial No. 10/025,080 filed December 19, 2001.

The Examiner is requested to indicate consideration of this art on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicants.

By

Respectfully submitted,

CHARLES L. EDWARDS, KIRK H. RANEY, and PAUL G. SHPAKOFF

P.O. Box 2463

Houston, Texas 77252-2463

Their Attorney, Jeffrey Y. Kao Registration No. 54,208

(713) 241-7256

FORM PTO-1449 (Modified)

LIST OF INFORMATION PROVIDED BY APPLICANT

ATTY. DOCKET NO. TH1647 05 (US) APPLICANT

APPLICATION NUMBER

C. L. Edwards et al.

(Use several sheets if necessary)			FILING DATE	GROUP ART UNIT				
REFERENCE	DESIGNA	TION	U.S. P	TENT DOCUMENTS		And Alley Since		
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing if Appropri	
	AA	3,676,523	7/11/72	Mason	260	683.15D	пофроро	
	AB	3,686,351	8/22/72	Mason	260	683.15D		-
	AC	3,737,475	6/5/73	Mason	260	683.15D		
	AD	3,825,615	7/23/74	Lutz	260	683.15D		
	AE	4,020,121	4/26/77	Kister et al.	260	683.15D		
	AF	4,021,447	5/3/77	Rubin et al.	260	326.8		
	AG	3,702,886	11/14/72	Argauer et al.	423	328		
	AH	3,709,979	1/9/73	Chu	423	328		
	Al	3,832,449	8/27/74	Rubin et al.				
			FOREIGN	PATENT DOCUMENTS				
		Document No.	Date	Country	Class	Subclass	<u>Translatio</u> Yes	<u>n</u> No
	AL	WO 94/05761	3/17/94	World	C11D	3/10		
	AM	1,429,143	3/24/76	Great Britain	C11D	10/02		
	AN	WO 99/42553	8/26/99	World	C11D	3/43		
	AO	0,884,298 A2	12/16/98	Europe	C07C	43/10	Х	
ord that		OTHER DOCUME	NTS (INCLUDING A	UTHOR, TITLE, DATE, PERTI	NENT PAGES, E)	(C) - E	<u> 1</u> 104	- 314 - S
	AR	Myers, Drew, "Surfactant Science and Technology," pp. 82-85, VCH Publishers, Inc. (New Y						
	AS							
	АТ	Reid, V.W., G.F. Longman and E. Heinerth, "Determination of Anionic-Active Detergents by Two-Pha Titration," <u>Tensile</u> 4, 1967, pp. 292-304						ase
EXAMINER	<u> </u>			DATE CONSIDERED	-			

EXAMINER: Initial if citation considered, whether or not citati n is in conformance with MPEP § 609. Draw line through citation if n t in conf rmance and not considered. Include copy of this form with next communication to the applicant.

The attached cited inf rmation should not be construed as an admission that any of the above items are prior art to the subject invention. This is not a representation that a search has been mad. 2.

FORM PTO-1449 (Modified)				ATTY. DOCKET NO. APPLICATION NUMBER TH1647 05 (US)							
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(Us	e several	sheets if necessary)		FILING DATE	GROUP ART UNIT						
REFERENCE DESIGNATION U.S. PA				ATENT DOCUMENTS:	TENT DOCUMENTS						
Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date if Appropriate				
	BA	4,482,531	11/13/84	Kuehl	423	329					
	BB	3,950,496	4/13/76	Ciric	423	328					
	ВС	3,972,983	8/3/76	Ciric	423	328					
	BD	4,046,859	9/6/77	Plank et al.	423	328					
	BE	4,247,416	1/27/81	Doherty et al.	252	428					
	BF	4,086,186	4/25/78	Rubin et al.	252	430					
	BG	4,046,859	9/6/77	Plank et al.	423	328					
	ВН	4,287,166	9/1/81	Dwyer et al.	423	325		<u> </u>			
	Bl	4,247,728	1/27/81	Rubin et al.	585	467					
			FOREIGN	PATENT DOCUMENTS				- 14 to 15			
		Document Number	Date	Country	Class	Subclass	Transla Yes	nti <u>n</u> No			
	BL	06073045	3/15/94	Japan	C07D	273/08	X				
	ВМ	03261779	11/21/91	Japan	C07D	309/24	Х				
	BN	JP 11-349507	12/21/99	Japan	C07C	43/11	Х				
	во	100 20 899 A1	10/25/01	Germany	C07D	493/04	Х				
		OTHER DOCUMEN	TS (INCLUDING)	AUTHOR, TITLE, DATE, PERTI	NENT PAGES,	ETC.)					
	BR	B. E. Gordon, H. Roc		T. Shebs, "A Double Labe hemists' Society, Vol. 44,			Deterge	ency			
	W. T. Shebs and B. E. Gorden, "Improvements in Detergency Precision With Ra BS American Oil Chemists' Society, Vol. 45, No. 5 (1968) pp. 377-380							Journal of			
	вт	W. T. Shebs, "Radioi Marcel Dekker, Inc.,		ques in Detergency," Chap 17) pp. 125-191	pter 3, <u>Deter</u>	gency Theory	and Tec	hnology,			
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^{1.} 2.

Sheet 3 of 6 ATTY, DOCKET NO. APPLICATION NUMBER FORM PTO-1449 (Modified) TH1647 05 (US) APPLICANT LIST OF INFORMATION PROVIDED BY APPLICANT C. L. Edwards et al. FILING DATE **GROUP ART UNIT** (Use several sheets if necessary) REFERENCE DESIGNATION U.S. PATENT DOCUMENTS Examiner Filing Date Initial Document No. Date **Patentee** Class **Subclass** if Appropriate CA 4,495,303 1/22/85 Kuehl 502 62 CB 4,397,827 8/9/83 Chu 423 326 CC 4,640,829 2/3/87 Rubin 423 328 CD 502 62 4,568,654 2/4/86 Valyocsik CE 4,698,217 10/6/87 Valyocsik 423 328C CF 423 4,647,442 3/3/87 Derouane et al. 306 CG 4,619,818 10/28/86 Derogane et al. 423 306 CH 9/4/90 423 328 4,954,325 Rubin et al. CI 5,236,575 8/17/93 Bennett et al. 208 46 FOREIGN PATENT DOCUMENTS **Translation** Document No. Date Country Class Subclass CL СМ CN CO OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) Roger Hunter et al., "Allylation Using Allylborates," TETRAHEDRON, Vol. 50, No. 3, 1994, pp. 871-888 CR

EXAMINER: Initial if citation considered, whether r not citation is in conformance with MPEP § 609. Draw line thr ugh citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Birgit Bartels et al., "A Selectivity of Activated Ketal Reduction With Borane Dimethyl Sulfide," JOURNAL

Withdrawing Substituents With Optically Active Diols," JOURNAL OF ORGANIC CHEMISTRY, Vol. 52,

T. Hosokawa et al., "Palladium (II)-Catalyzed Acetalization of Terminal Olefins Bearning Electron-

DATE CONSIDERED

OF ORGANIC CHEMISTRY, Vol. 58, No. 24, 1993, pp. 6756-6765

1987, pp. 1958-1764

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EXAMINER

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FORM PTO-1449 (Modified)				TH1647 05 (US)	₹				
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REFERENCE	EFERENCE DESIGNATION U.S. PA			ENT DOCUMENTS					
Examin r Initial		Document Number	Date	Patentee	Class	Subclass	Filing if Approp	Dat riate	
	DA	3,308,069	3/7/67	Wadlinger et al.	252	455			
	DB	Re. 28,341	2/18/75	Wadlinger, et al.	208	120			
	DC	3,058,805	10/16/62	Weber	23	113			
	DD	3,130,007	4/21/64	Breck	23	113		-	
	DE	3,996,337	12/7/76	Stabenow et al.	423	328			
	DF	4,440,871	4/3/84	Lok et al.	502	214			
	DG	5,059,567	10/22/91	Linsten et al.	502	64			
	DH	3,462,525	8/19/69	Levinsky	424	56			
	DI	3,428,654	2/18/69	Rubinfeld et al.	260	327			
			FOREIGN P	ATENT DOCUMENTS					
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•	DR	F. Wang etal., Synlett	r, (1998) pp. 245	-245					
	DS	A. A. Volkov et al., Dokl. Chem. 283, (1985), pp. 246-248							
	DT	International Search Report of 5 July 2002							
EXAMINER				DATE CONSIDERED					

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Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date if Appropriat		
	EA	3,420,875	1/7/69	Di Salvo et al.	260	513			
	EB	3,506,580	4/14/70	Rubinfeld et al.	252	138			
	EC	3,579,537	5/18/71	Rubinfeld et al.	260	327			
	ED	3,524,864	8/18/70	Rubinfeld et al.	260	327			
	EE	5,057,627	10/15/91	Edwards	568	618			
	EF	6,087,311	7/11/00	Van Dijk	510	294			
	EG	6,083,893	7/4/00	Zint et al.	510	221			
	EH	6,159,920	12/12/00	Ridyard	510	324			
	EI	6,153,574	11/28/00	Janssen	510	224			
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				APPLICANT C. L. Edwards et al.					
				FILING DATE	GROUP A	GROUP ART UNIT			
REFERENCE D	ESIGNA	TION	U.S. PA	TENT DOCUMENTS					
Examin r Initial		Document No.	Date	Patentee	Class	Subclass	Filing Dat if Appropriate		
	FA	2,778,855	1/22/57	Shokal et al.	260	613			
· · · · · · · · · · · · · · · · · · ·	FB	4,503,275	3/5/85	Harris et al.	568	866			
	FC	4,317,938	3/2/82	Lutz	568	619			
	FD	4,721,816	1/26/88	Edwards	568	618			
	FE	4,721,817	1/26/88	Edwards	518	618			
	FF	2,808,442	10/1/57	Smith et al.	260	611		······································	
	FG	5,912,408	6/15/99	Trinh et al.	8	142		· · · · · · · · · · · · · · · · · · ·	
	FH	4,544,512	10/1985	Hozumi et al.	558	169			
	FI	Ser. No. 10/025,080	12/19/01	Edwards et al.					
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